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DPD-2653-59  
22 April 1959

Dear Sid:

Enclosed for your information is a copy of RW's Field  
Engineering Progress Report No. 4 (CMCC Doc. No. 163X5.99)  
for the period of 1 December through 31 December 1958.

Sincerely,

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Jim

Distribution:

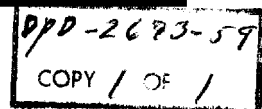
Orig - [REDACTED] w/cy 2 of Encl 1 DPD-2673-59  
cc - A-101, Fld. Eng. Progress Reports Folder  
cc - Chrono, RI

DPD-DD/P [REDACTED] :lmw (22-4-59)

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CMCC Doc.No. 151x5.1434

Copy 1 of 2Page 1 of 1

April 13, 1959

Dear Dan:

Attached are two (2) copies of Field Engineering's Progress Report No. 4 for Contract A-101 and the new time and materials contract.

Sincerely,

  
Jack

Enclosures:

CMCC Doc.No. 163x5.100 - Copies 1 and 2

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This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, Title 18 U.S.C., Section 793 and 794. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

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*Encl #1*  
DPO-2643-58  
COPY 1 OF 2

PROGRESS REPORT NO. 4

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FIELD ENGINEERING SERVICES FOR  
CONTRACT A-101 AND  
TIME AND MATERIALS CONTRACT

1 January through 28 February 1959

CMCC Document No. 163x5.100

Copy 1 of 10 copies

30 March 1959

(This document contains a total of 10 sheets,  
including this title page.)

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**SECRET**1. General Summary

- a. This report describes the in-plant field-engineering activities in support of Contract A-101, Requirements 1 and 3, and covers the period from 1 January through 28 February 1959. Funding for these activities is provided under Contract A-101 and under a Time and Materials contract covering the period 1 January through 30 June 1959. Informal authorization to charge against the Time and Materials Contract was received in February, and final approval is expected early in the next report period. Section 7 of this report is a cost summary for the period 1 January through 28 February 1959.
- b. The activities covered by this report are divided into five general categories: supervision, training, field modifications, general field support, and repair and retrofit. The repair and retrofit activity, not described in previous reports, became the responsibility of the Field Engineering organization on 1 February 1959.

2. Supervisory Activities

## a. General and Administrative

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(1) During the week of 9 February to 13 February, [REDACTED] visited the detachment at Laughlin AFB, Del Rio, Texas. The purpose of this trip was general liaison, review of manpower and support requirements, and implementation of the System 4 program at Del Rio.

(2) A total of 1400 square feet of laboratory space was acquired by the Field Engineering organization during the report period. This space will be used for implementation of the repair and retrofit program, which became the responsibility of Field Engineering on 1 February, and for general in-plant support work.

(3) Work is continuing on the final phases of Contract A-101. A special cost estimate for the Field Engineering services still to be performed under this contract was appended to Progress Report No. 3 (CMCC Doc. No. 163x5.99), dated 30 January 1959. Tentative approval and authorization to charge against Time and Materials Contract for Field Engineering Services was obtained from both Customer A and Customer C. Formal approval of the Time and Materials Contract, covering the period 1 January to 30 June 1959 is expected early in the next report period.

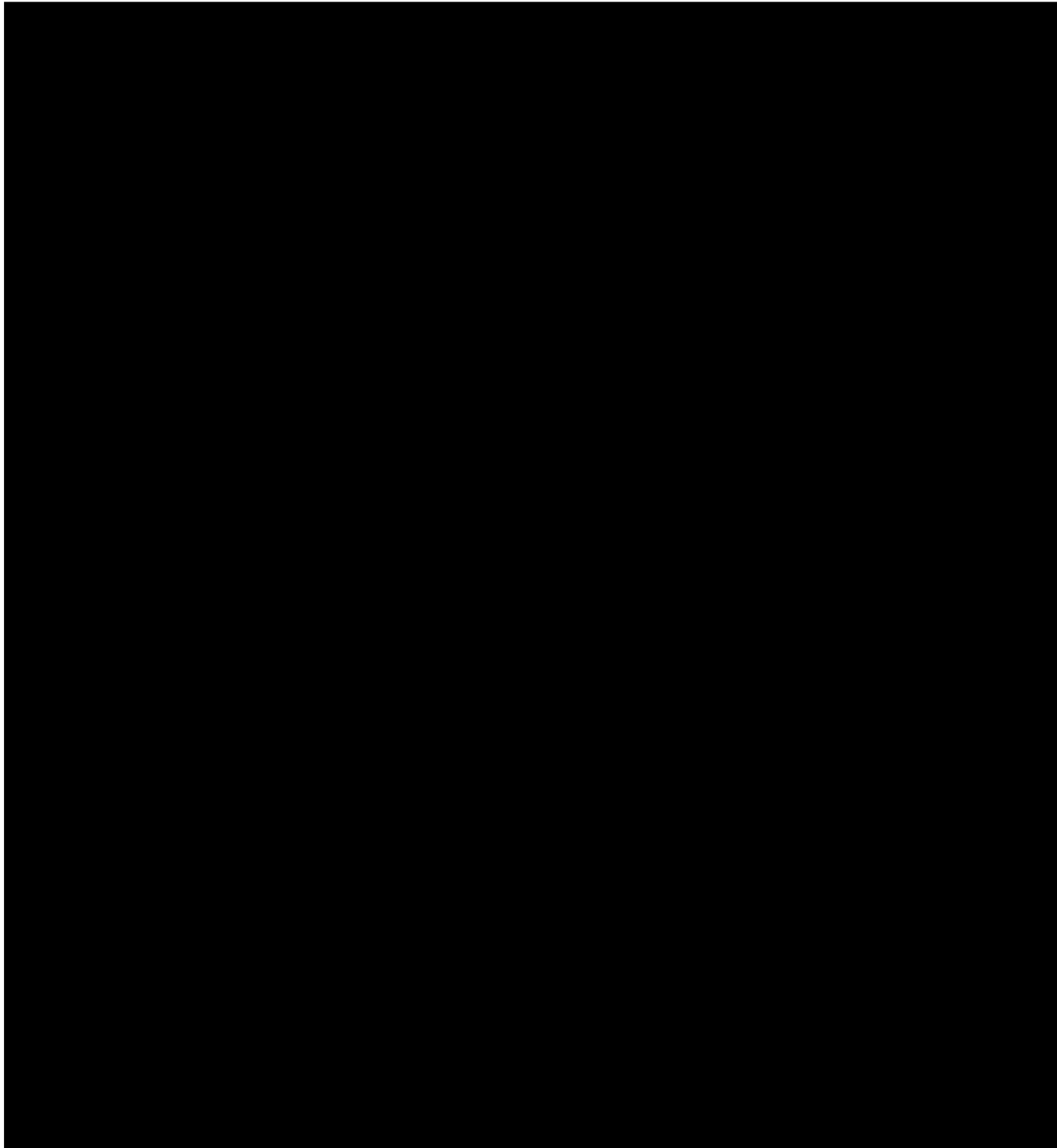
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(4) Additional management activities during the report period included organization and implementation of the repair and retrofit program, liaison with Customer A depot and Headquarters personnel, and supervision of the final checkout and shipment to Customer C of twenty-one Data Reduction System racks.

b. Personnel

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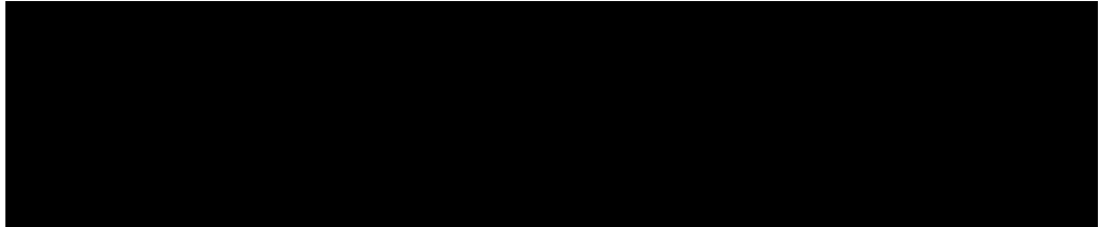


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## c. Orientation and Technical Briefings

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3. Training

## a. In-Plant Training Program

At the close of the report period, three technicians were in training for field assignment.

## b. Training Aids

Distribution of the partial and simplified schematic diagrams for the C rack was completed in January. Similar diagrams, covering the time mark generator and transport sequence control in the A and B racks, were completed and distributed in February. Preparation of training-aid diagrams for the M rack will begin during the next report period. Technical Pamphlet No. 1, titled "Magnetic Tape Recording", was distributed in January. A booklet titled "The Tape Recorder as an Instrumentation Device", supplied at no cost by the Ampex Corporation, was distributed to all detachments with data-reduction equipment late in December.

4. Field Modifications

a. The following is a list of Field Service Bulletins completed during the report period.

<u>FSB No.</u>	<u>System</u>	<u>Unit</u>	<u>Description</u>
*1-8	1	Information Recorder	Modification of tape-handling mechanism
1-9	1	Base Assembly	Add test connector (Customer C only)
*3-3	3	Information Recorder	Same as 1-8 above

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<u>FSB No.</u>	<u>System</u>	<u>Unit</u>	<u>Description</u>
4-11	4	Indicator	Add blue filter to prevent film fogging (Serial 101, 103, 104)
4-12	4	Programmer	Minor circuit changes for improved reliability (Serial 101, 103)
*4-13	4	Programmer	Minor circuit changes for improved AGC recording (Serial 101 through 107)
4-14	4	Superhet. Receivers	Replace receiver test plugs with improved design
*6-4	6	Information Recorder	Same as 1-8 above

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\*No modification kit required for these items.

b. At the close of the report period, modification kits for all Field Service Bulletins listed above had been shipped, with the exception of FSB No. 4-14. Manufacture of the redesigned receiver test plugs for this modification is expected early in the next report period.

## 5. General Field Support

### a. Technical Services

(1) Activities in this area include the engineering work involved in answering queries and solving special problems encountered in the field; procurement and shipment of special parts not available through normal channels; and processing and analysis of fault reports. These activities are handled on a day-to-day basis and a detailed description is beyond the scope of this report.

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(2) Publication of the informal Technical Information Bulletins, covering service and troubleshooting hints and similar data, is continuing. A total of 12 bulletins was issued during the period covered by this report.

b. Special Projects

(1) The final inspection, troubleshooting, test and adjustment of 21 Data Reduction System racks was completed during the report period.

(2) An engineering study of r-f noise generated by the B unit was undertaken during the report period. It is expected that this study will result in minor changes to current maintenance procedures and modification of line filters presently used in the unit. A study is also in progress on the third local-oscillator subassembly of System 3 [REDACTED]. Field reports indicate that some redesign of this subassembly is required.

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c. Unsatisfactory Reports

The following UR's from Customer C were answered during the report period.

<u>UR No.</u>	<u>Description</u>
58-938	Malfunction of AN/ARN-6 radio compass due to noise radiation by System 3.
58-772	Non-fit of [REDACTED] in System 1 vehicle.
58-190	Malfunction of B unit due to excessive tape drag.
58-189	Lack of test points for monitoring outputs of C5 amplifiers in System 1.
58-1363	Malfunction of A-rack capstan motor.
59-16	Malfunction of B-unit capstan motor drive assembly.

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Satisfactory action was taken on all of the above UR's.

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d. System 4 Environmental and Flight Tests (Customer C)

The environmental test report and engineering notebook for System 4, Serial 106, were completed and shipped during the report period. Environmental tests for Serial 107 were nearing completion at the close of the report period. Laboratory checkout of Serial 102 in preparation for environmental testing will begin on 9 March. This system was returned to the plant for rework and retrofit, and will be subjected to both environmental and flight tests during the next report period.

6. Repair and Retrofit Program

a. Conduct of the repair and retrofit program for Customers A and C became the responsibility of Field Engineering on 1 February 1959. A total of 1400 square feet of laboratory space has been set aside for this program and for other in-plant support activities. Other facilities which will be utilized for repair and retrofit include the Pilot Production plant and machine shop, and the R and D model shop and machine shop. It is expected that centralized control of this activity will result in substantial improvement of service to the customer.

b. One of the first projects completed by the repair and retrofit facility involved modification and testing of a Rambo traveling-wave tube amplifier (S-603). The modified unit was successfully tested in the environmental chamber, under adverse moisture conditions, at an altitude of 75,000 feet.

7. Cost Summary

A summary of costs for Field Engineering services under Contract A-101, and the Time and Materials contract, is tabulated on the following pages. The costs shown are for the period 1 January through 28 February 1959.

Note that funds expended in January were charged against Contract A-101, since approval to charge against the Time and Materials contract had not been received.

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